

#### ABSTRACT OF THE DISCLOSURE

An encoding device and method, a decoding device and method, and an image information processing system and method, which can speed up encoding processing and/or decoding processing, are proposed. There is provided a first storing unit which, when an encoding unit or a decoding unit applies encoding processing or decoding processing to image information, stores state quantity information representing a predetermined state quantity which is used while being sequentially updated according to a processing state of the encoding processing or the decoding processing. The encoding unit or the decoding unit reads out only a necessary part of the state quantity information from the first storing unit and changes the state quantity information according to the processing state of the encoding processing or the decoding processing with respect to the image information, and then writes back the state quantity information to the first storing unit. In addition, plural kinds of encoding processing with respect to the image information are performed in parallel with a predetermined first phase difference according to processing contents of respective kinds of encoding processing.